

SWP Weekly Water Quality Summary

August 17 to 25, 2010

Electrical Conductivity (EC): Concentrations increased at Harvey O. Banks Pumping Plant (HBP), Barker Slough and Vallecitos. Concentrations ranged from 211 to 331 $\mu\text{S}/\text{cm}$ (127 to 199 mg/L) and were below the Article 19 Monthly Average Objective of 733 $\mu\text{S}/\text{cm}$ (440 mg/L). The lowest concentration of 223 $\mu\text{S}/\text{cm}$ (134 mg/L) occurred at Barker Slough, and the highest concentration of 331 $\mu\text{S}/\text{cm}$ (199 mg/L) occurred at HBP. EC increased at HBP from 289 $\mu\text{S}/\text{cm}$ to 331 $\mu\text{S}/\text{cm}$ (173 to 199 mg/L).

Bromide *: Concentrations exceeded the California Bay-Delta Authority Objective of 0.05 mg/L at all the stations throughout the week. Barker Slough had the lowest concentration of 0.06 mg/L , while the highest concentration of 0.12 mg/L occurred at HBP.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: Turbidity levels decreased at HBP and Vallecitos, but increased at Barker Slough. Turbidity levels ranged from 5.5 NTU to 45.3 NTU. On August 25, the lowest level of 5.5 NTU occurred at Vallecitos, while the highest level of 45.3 NTU occurred at Barker Slough. Turbidity levels at HBP decreased from 9.6 NTU to 6.9 NTU.

Dissolved Organic Carbon (DOC): Concentrations increased from 2.2 mg/L to 2.3 mg/L at HBP, but decreased from 3.0 mg/L to 2.3 mg/L at Check 13 and from 2.8 to 2.7 mg/L at Edmonston Pumping Plant.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP remained low at Clifton Court Inlet, HBP, O'Neill Forebay Outlet, Del Valle Check 7, San Luis Pacheco Pumping Plant Outlet. Concentrations ranged from non-detect (<1 ng/L) to 10 ng/L .

Groundwater pump-ins to the California Aqueduct totaled 3,397 AF. The breakdown of the total volume was:

- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 8 AF
- Semitropic (2&3) Water Storage District = 3,389 AF

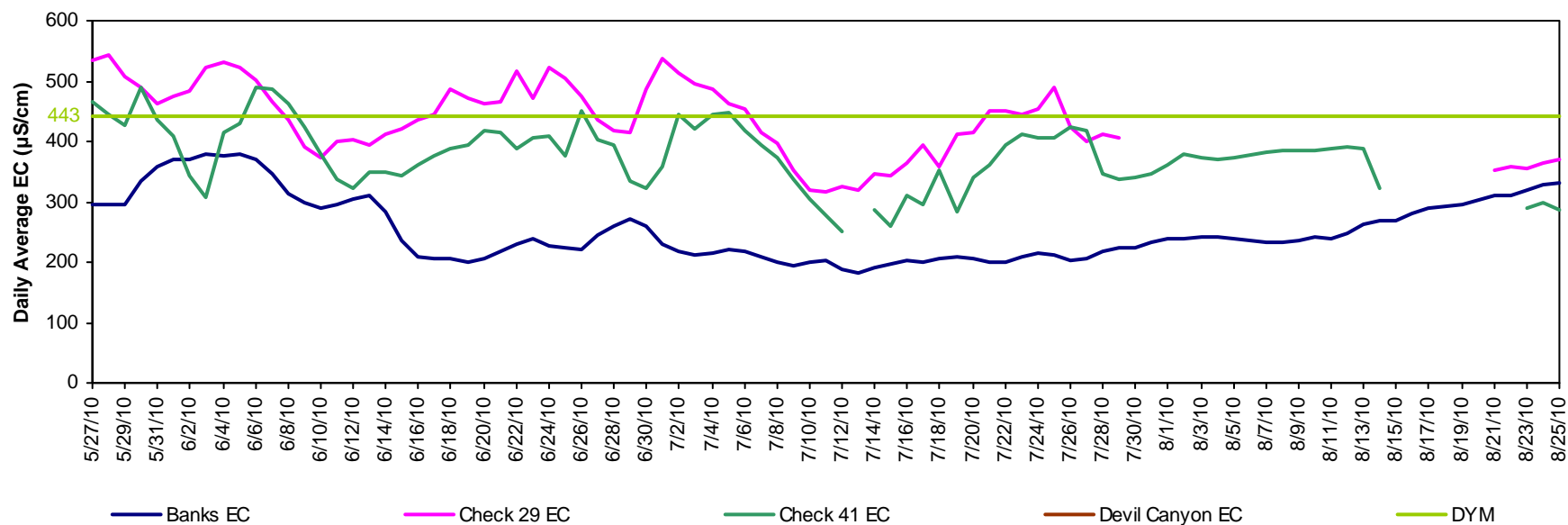
During the week no data were available for Check 29 and Devil Canyon due to malfunctioning instruments.

The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213 or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit:

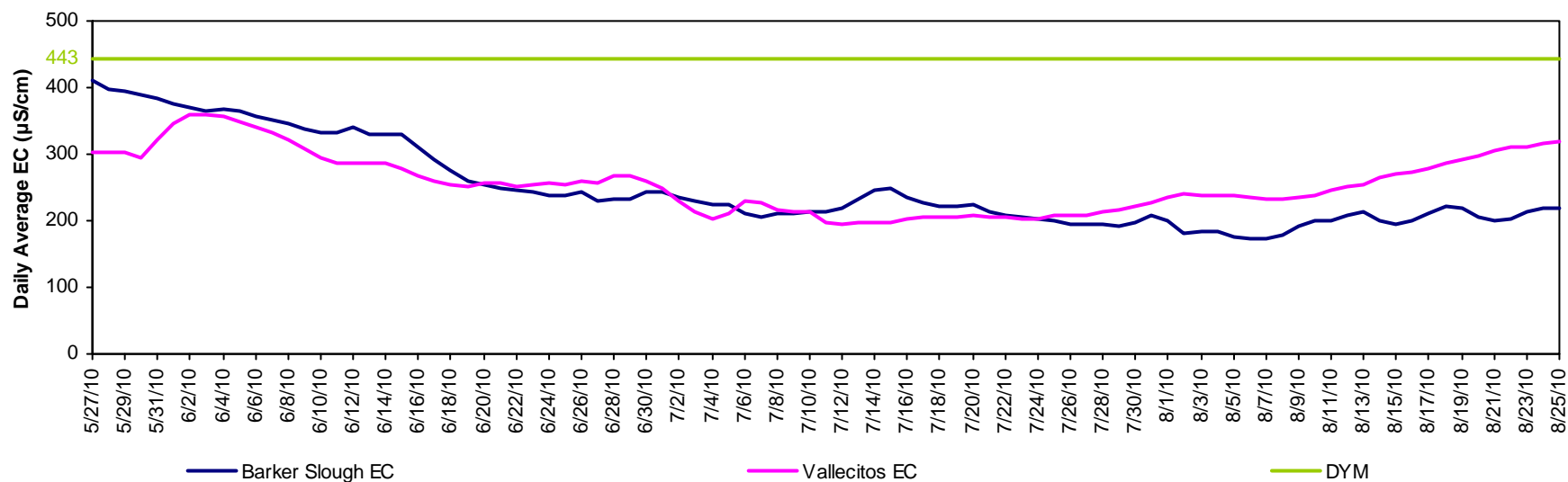
http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

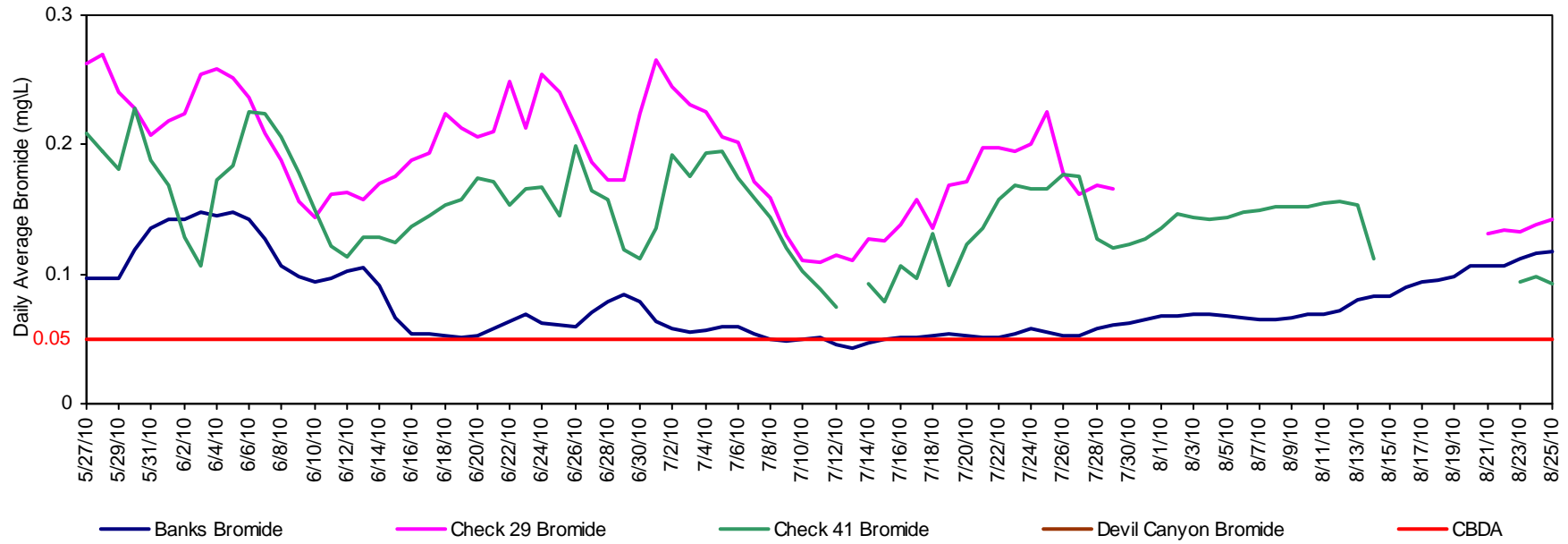
California Aqueduct - Electrical Conductivity



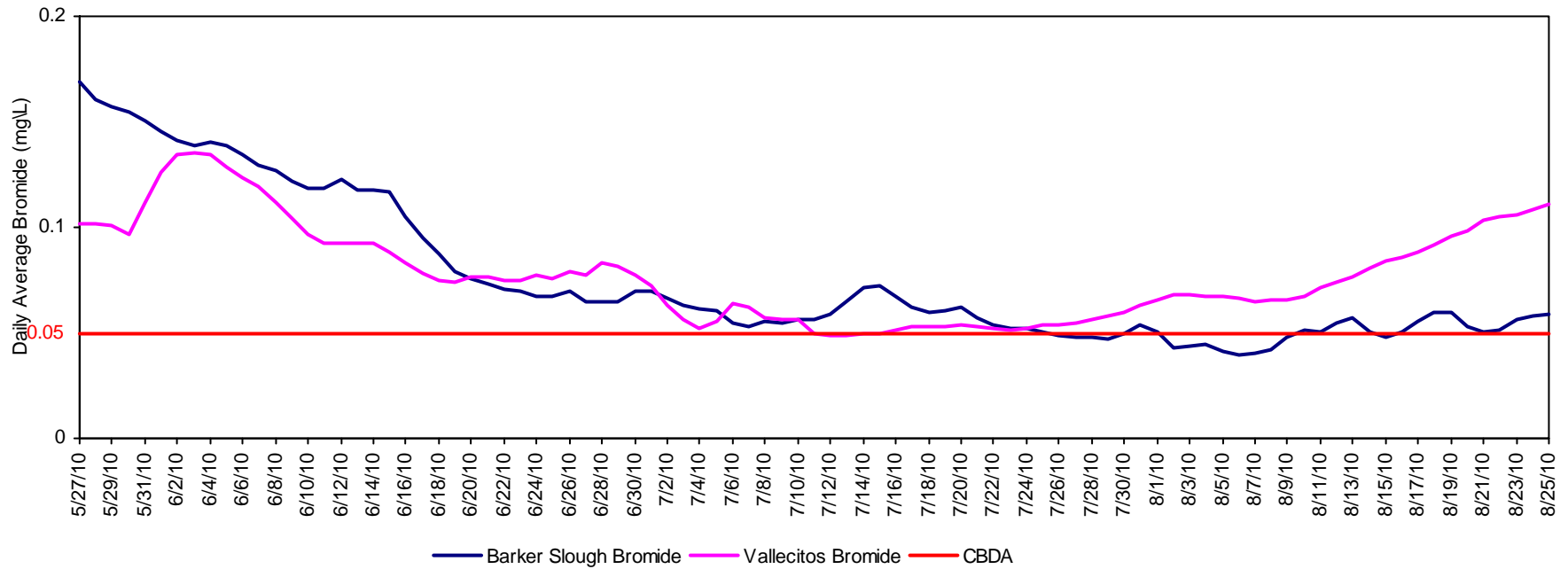
North and South Bay Aqueduct - Electrical Conductivity



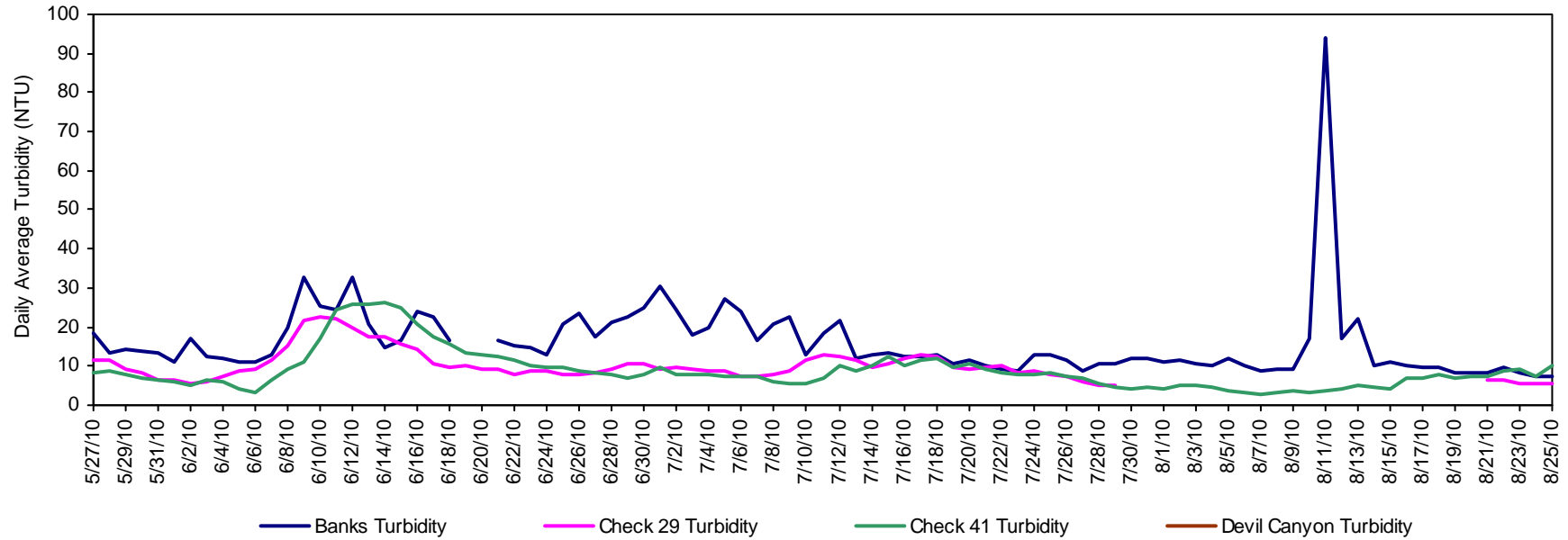
California Aqueduct - Calculated Bromide



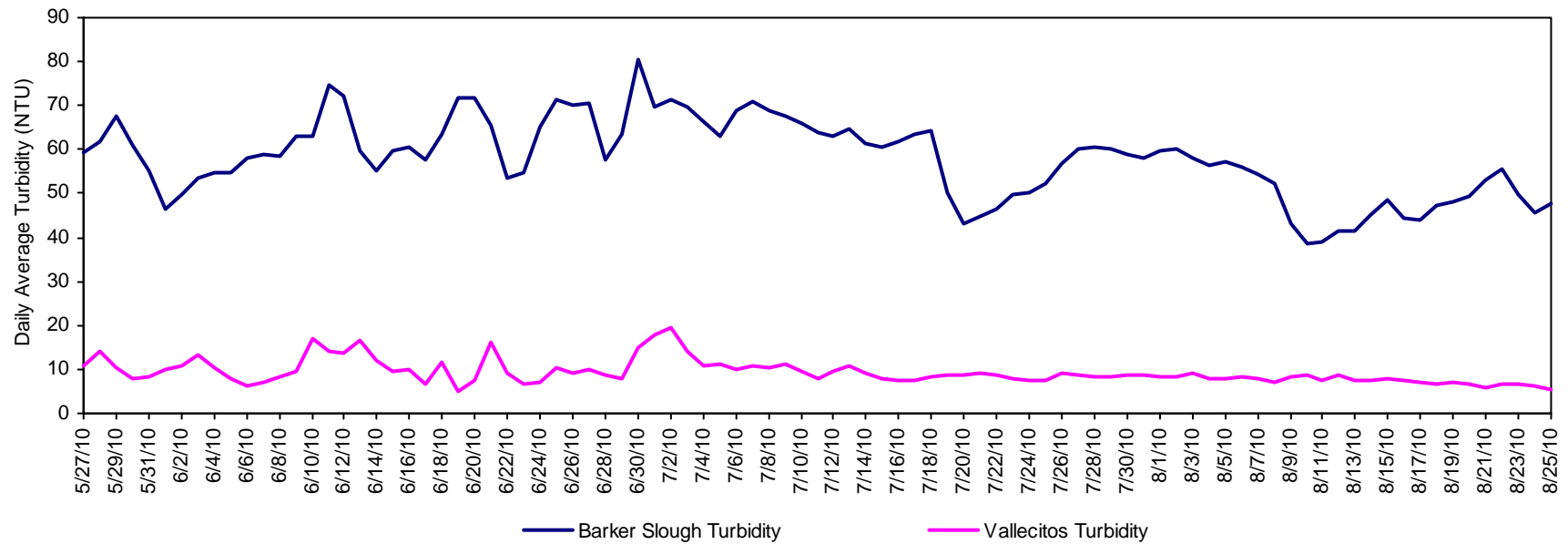
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

